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| The iscom antigen-presenting system. Morein B. Department of Virology, National Veterinary Institute, Upp Sweden. The immunostimulating complex, or iscom, provide effective means of presenting antigens to the immu system. Vaccines for influenza, hepatitis B and AIDS the offing. PMID: 3347272 [PubMed - indexed for MEDLINE] | s an ne | | The new viral sul The isconsystem. Adenoviral sul Induction against model: and isconsystem. | ition of the im unization with ப்பிய்யலிற்றி generation o ounitpaga இத்தி om: an immun [Imr | mune res antigens visitation f recombi Biotechnol. ostimulat munol Lett. vaccines. Biol Stand. e immunit s in a mad c convention. | in 1987] nant 1996] ing 1990] 1994] ty caque onal |

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1: <u>J Ultrastruct Mol Struct Res.</u> 1989 Dec;102(3):240-8.

Links

Quaternary structure of the immunostimulating complex (iscom).

Ozel M, Hoglund S, Gelderblom HR, Morein B.

Robert Koch-Institute of the Federal Health Office, Berlin, Federal Republic of Germany.

Proteins of either HIV-1, hepatitis B, or rabies virus were incorporated with the adjuvant substance Ouil A and cholesterol into the immunostimulating complex: iscom. Formation and symmetry of this regular complex were analyzed by electron microscopy. Micellar structures with a diameter of about 12 nm, occasionally with a 7-nm stain-filled center, were formed in a 0.03% water suspension of Quil A. Cavities or holes appeared in the smooth structures of cholesterol upon the addition of Quil A, and after mixing Quil A and cholesterol 1:1 fragile and flattened structures of matrix were produced with a diameter of about 40 nm. By freeze-drying the matrix was preserved as a cage-like, isometric particle. Stable iscom particles composed of Quil A, cholesterol, and selected viral proteins had an approximate diameter of 32 nm. The particles had an uniform, cage-like structure, exhibiting icosahedral symmetry, irrespective of the viral proteins incorporated. Tilting experiments and rotational image analysis indicated that the iscoms were composed of 20 morphological subunits assembled in a pentagonal dodecahedron with a hole on each of the 12 pentagonal faces. The symmetrical shape of the iscom might explain both its remarkable stability and its capacity to efficiently present antigens to the immune system.

PMID: 2634709 [PubMed - indexed for MEDLINE]

Related Links

Influenza virus ISCOMs: biochemical characterization. [Vaccine. 1988]

Pseudo-ternary phase diagrams of aqueous mixtures of Quil A, cholesterol and phospholipid prepared by the lipid-film hydration method. [Int] Pharm. 2004]

The requirement of lipids for the formation of immunostimulating complex (Biothem. 1988)

On the structure of immunestimulating saponin-lipid complexes (iscoms). [Biochim Biophys Acta. 1991]

A comparison of pseudo-ternary diagrams of aqueous mixtures of Quil A, cholesterol and phospholipid prepared by lipid-film hydration and dialysis. [] Pharm Pharmacol. 2004]

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| <u>#15</u> | Search HCV and cholesterol and phospholipid and saponin Limits: Entrez Date to 1999/11/19 | 07:20:16 | 0 |
| <u>#13</u> | Search HCV and cholesterol Limits: Entrez Date to 1999/11/19 | 07:13:06 | <u>14</u> |
| #12 | Search HCV and saponin Limits: Entrez Date to 1999/11/19 | 07:12:51 | <u>0</u> |
| #11 | Search HCV and saponin-based adjuvant Limits: Entrez Date to 1999/11/19 | 07:12:42 | 0 |
| <u>#5</u> | Search ISCOM Limits: Entrez Date to 1999/11/19 | 07:10:13 | <u>250</u> |
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| <u>#1</u> | Search ISCOMATRIX and HCV Limits: Entrez Date to 1999/11/19 | 07:09:23 | <u>0</u> |



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| #19 Search ISCO 2003/07/21 | M and HCV Limits: Entrez Date to | 07:24:29 | 1 |
| #18 Search ISCO 2000/11/17 | M and HCV Limits: Entrez Date to | 07:24:13 | 0 |
| #17 Search ISCO 2000/08/11 | M and HCV Limits: Entrez Date to | 07:23:57 | <u>0</u> |
| #16 Search Limits | : Entrez Date to 2000/08/11 | 07:23:41 | <u>12841896</u> |
| #6 Search ISCO to 1999/11/19 | M and hepatitis Limits: Entrez Date | 07:21:34 | 4 |
| #2 Search ISCO1 1999/11/19 | MATRIX Limits: Entrez Date to | 07:21:19 | <u>3</u> |
| | and cholesterol and phospholipid z Date to 1999/11/19 | 07:20:23 | 1 |
| | and cholesterol and phospholipid and ts: Entrez Date to 1999/11/19 | 07:20:16 | 0 |
| #13 Search HCV : 1999/11/19 | and cholesterol Limits: Entrez Date to | 07:13:06 | <u>14</u> |
| #12 Search HCV : 1999/11/19 | and saponin Limits: Entrez Date to | 07:12:51 | 0 |
| #11 Search HCV : Entrez Date (| and saponin-based adjuvant Limits: to 1999/11/19 | 07:12:42 | <u>0</u> |
| #5 Search ISCO | M Limits: Entrez Date to 1999/11/19 | 07:10:13 | <u>250</u> |
| #4 Search ISCO1 1999/11/19 | M and HCV Limits: Entrez Date to | 07:10:07 | 0 |
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